

GenCore version 4.5
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OM nucleic - nucleic search, using sw model

Run on: March 9, 2002, 00:09:21 ; Search time 8498.8 Seconds
(Without alignments)
27.817 Million cell updates/sec

Title: US-09-851-670-13

Perfect score: 22

Sequence: 1 caccgcctctcgcacatgga 22

Scoring table: IDENTITY_NUC

Searched: 11351937 seqs, 5372889281 residues

Total number of hits satisfying chosen parameters: 111874

Minimum DB seq length: 0
Maximum DB seq length: 60

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :

EST:*
1: em_estfun:*
2: em_esthum:*
3: em_estin:*
4: em_estom:*
5: em_estpl:*
6: em_estba:*
7: em_estro:*
8: em_estov:*
9: em_htc:*
10: gb_estl:*
11: gb_est2:*
12: gb_htc:*
13: gb_gss:*
14: em_gss_fun:*
15: em_gss_hum:*
16: em_gss_inv:*
17: em_gss_pln:*
18: em_gss_pro:*
19: em_gss_rpd:*
20: em_gss_vrt:*
21: em_gss_other:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	14.2	64.5	52	10	AM692215 NF048H04S
2	13.8	62.7	34	13	AQ025206 EP(3)1249
3	13	59.1	40	11	W98495 mg13d12.r1
4	13	59.4	58	10	AA857578 of64f12.s
5	12.4	56.4	51	13	AA074058 EP(2)2050
6	12.4	56.4	52	10	AA662933 nu92d08.s
7	12.4	56.4	52	11	BI175649 OSTRO51E8
8	12.2	55.5	58	10	A1494282 qy98d02.x
9	12	54.5	37	10	A1667553 fc41g05.x
10	12	54.5	50	10	AU102542 AU102542
11	12	54.5	50	10	AU103241 AU103241
12	12	54.5	58	10	AA612377 v003g03.r

13	11.8	53.6	30	13	AZ394609
14	11.8	53.6	37	13	AZ658111
15	11.8	53.6	43	10	AI795088
16	11.8	53.6	43	13	AZ834659
17	11.8	53.6	49	10	AI367448
18	11.8	53.6	54	13	AZ645918
19	11.8	53.6	58	10	AU008450
20	11.6	52.7	21	13	AZ976439
21	11.6	52.7	31	13	TA2299E12Q
22	11.6	52.7	41	11	R34351
23	11.6	52.7	44	10	BE378922
24	11.6	52.7	50	10	AU103953
25	11.6	52.7	50	10	AU107212
26	11.6	52.7	50	13	AZ491437
27	11.6	52.7	55	10	AI935707
28	11.6	52.7	58	10	AA687409
29	11.4	51.8	27	13	AZ485936
30	11.4	51.8	32	13	AZ462085
31	11.4	51.8	33	13	AZ466859
32	11.4	51.8	36	13	BH011404
33	11.4	51.8	37	13	AZ616333
34	11.4	51.8	40	13	AZ463268
35	11.4	51.8	46	10	AA591068
36	11.4	51.8	50	10	AU102615
37	11.4	51.8	50	10	AU104278
38	11.4	51.8	52	10	AU104982
39	11.4	51.8	52	10	AM693240
40	11.4	51.8	58	10	AA566959
41	11.4	51.8	59	10	AV834199
42	11.4	51.8	59	10	AW160067
43	11.4	51.8	59	13	AZ345576
44	11.4	51.8	60	10	AM693123
45	11.4	51.8	60	11	BF019349

ALIGNMENTS

RESULT 1
LOCUS AM692215 52 bp mRNA EST 21-DEC-2000
DEFINITION NF048H04S1P1000 Developing stem Medicago truncatula cDNA clone
NF048H04S1 5', mRNA sequence.
ACCESSION AM692215 GI:11957904

VERSION 1
KEYWORDS
SOURCE
ORGANISM

barrel medic.
Medicago truncatula
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
Rosidae; eurosids I; Fabales; Fabaceae; Papilionoideae; Trifoliaceae;
Medicago.

REFERENCE 1 (bases 1 to 52)
He,X.-Z., Shadle,G., Scott,A.D., Harris,A.R., Gonzales,R.A., Bell
C.J., Flores,H.R., Imman,J.T., Weller,J.W., May,G.D. and Dixon

TITLE
JOURNAL
COMMENT
Expressed Sequence Tags from the Samuel Roberts Noble Foundation
Medicago truncatula stem library
Unpublished (2000)
On Apr 14, 2000 this sequence version replaced gi:7566951.

Contact: Dixon RA

Plant Biology Division
The Samuel Roberts Noble Foundation
2510 Sam Noble Parkway, Ardmore, OK 73402, USA
Tel: 580 221 7302
Fax: 580 221 7380

Email: radixon@noble.org
Insert Length: 909 Std Error: 0.00
Plate: 048 row: H column: 04

Seq primer: TCACACAGAAACGATGAC.

FEATURES
source
1..52
/organism="Medicago truncatula"

/db_xref="taxon:3880"
 /clone_lib="Developing stem"
 /tissue_type="stem"
 /dev_stage="Pooled developmental"
 /note="Vector: Lambda Zap; Contains a mixture of
 intermodal stem segments"
 BASE COUNT 16 a 18 c 1 g 17 t
 ORIGIN

Query Match 64.5%; Score 14.2; DB 10; Length 52;
 Best Local Similarity 84.2%; Pred No. 7.7e+03;
 Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 1 caccgcgtctcgcacaat 19
 ||| | ||||| |||||
 Db 34 CACTCTCTCTCACAAT 52

RESULT 2
 A0025206/c 34 bp DNA GSS 23-AUG-2000
 LOCUS
 DEFINITION EP(3)1249 Drosophila melanogaster EP line Drosophila melanogaster
 genomic Sequence recovered from 5' end of P element, DNA sequence.
 ACCESSION A0025206
 VERSION A0025206.1 GI:3265558
 KEYWORDS GSS.
 SOURCE fruit fly.
 ORGANISM Drosophila melanogaster
 Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
 Pterygota; Neoptera; Endopterygota; Diptera; Brachycera;
 Muscomorpha; Ephydroidea; Drosophilidae; Drosophila.

REFERENCE
 AUTHORS Liao, G.-C., Rehm, E. J. and Rubin, G. M.
 TITLE 1 (bases 1 to 34)
 JOURNAL Insertion site preferences of the P transposable element in
 MEDLINE Drosophila melanogaster
 COMMENT Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3347-3351 (2000)
 20202638
 Contact: Gerald Rubin
 Berkeley Drosophila Genome Project
 University of California, Berkeley
 LSA Building, Berkeley, CA 94720-3200, USA
 Fax: 5106439947
 Email: gerry@fruitfly.berkeley.edu
 Sequence recovery method was inverse PCR.

Sequence orientation is forward strand relative to 5' end of P
 element

The P element insertion position is base 27 in the 34 bases. This
 insertion position refers to the first base of the 8 base target
 recognition sequence.
 Class: transposon-tagged.

FEATURES

Location/Qualifiers

1..34
 /organism="Drosophila melanogaster"
 /db_xref="taxon:7227"

/clone_lib="Drosophila melanogaster EP line"
 /note="Inverse PCR was performed on Drosophila
 melanogaster strains each of which contains a single EP
 transposable element insertion. (The generation of these
 insertion strains is described in North P, Szabo K, Bailey
 A, Laverly T, Rehm J, Rubin GM, Weigmann K, Milan M, Benes
 V, Ansoorge W, Cohen SM. 1998. Systematic gain-of-function
 genetics in Drosophila. Development 6:1049-1057.) The
 resultant fragment for each strain was directly sequenced
 to determine the genomic sequence at the site of
 insertion. Details of the protocols used can be found at
 http://fruitfly.berkeley.edu/P-disrupt/inverse_pcr.html."

BASE COUNT
 ORIGIN

4 a 5 c 17 g 8 t

Query Match 62.7%; Score 13.8; DB 13; Length 34;
 Best Local Similarity 88.2%; Pred. No. 1.1e+04;
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 caccgcgtctcgcaca 17
 ||||| ||||| |||||
 Db 26 CACCCGCTCTCTGCA 10

RESULT 3
 W98495/c 40 bp mRNA EST 16-JUL-1996
 LOCUS mg13d12.r1 Soares mouse embryo NBME13.5 14.5 Mus musculus cDNA
 DEFINITION clone IMAGE:423671 5' similar to SW:NUBM_BOVIN P25708
 NADH-UBIQUINONE OXIDOREDUCTASE 51 KD SUBUNIT PRECURSOR ;, mRNA
 sequence.
 ACCESSION W98495
 VERSION W98495.1 GI:1428405
 KEYWORDS EST.
 SOURCE house mouse.
 ORGANISM Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.

REFERENCE
 AUTHORS Marra, M., Hillier, L., Allen, M., Bowles, M., Dietrich, N., Dubuque, T.,
 Gessel, S., Kucaba, T., Lacy, M., Le, M., Martin, J., Morris, M.,
 Schellenberg, K., Steptoe, M., Tan, F., Underwood, K., Moore, B.,
 Theising, B., Wylie, T., Lennon, G., Soares, B., Wilson, R. and
 Waterston, R.
 TITLE The WashU-HMI Mouse EST Project
 JOURNAL Unpublished (1996)
 COMMENT Contact: Marra M/Mouse EST Project
 Washington University School of Medicine
 444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
 Tel: 314 286 1800
 Fax: 314 286 1810
 Email: mouseest@watson.wustl.edu
 This clone is available royalty-free through LNL; contact the
 IMAGE Consortium (info@image.lnl.gov) for further information.
 MGI:258223

Trace considered overall poor quality
 Possible reversed clone; similarity on wrong strand
 Seq primer: ETPRimer
 High quality sequence stop: 1.

FEATURES

Location/Qualifiers

1..40
 /organism="Mus musculus"
 /strain="C57BL/6J"
 /db_xref="taxon:10090"
 /clone_image="423671"
 /clone_lib="Soares mouse embryo NBME13.5 14.5"
 /sex="unknown"
 /tissue_type="embryo"
 /dev_stage="13.5-14.5dpc total fetus"
 /lab_host="DH10B"

/note="Vector: pT73D-Pac (Pharmacia) with a modified
 polylinker. Site 1: Not I; Site 2: Eco RI; 1st strand cDNA
 was primed with a Not I - oligo(dt) primer (5'
 TGTATCCATCTGAGAGGAGCGCGGAAATTTTCTTTTCTTTT
 T 3'), on equal amounts of mRNA from 2 13.5dpc and 2
 14.5dpc embryos (total RNA provided by Minoru Ko, Wayne
 State Univ., from 2 1; double-stranded cDNA was ligated to
 Eco RI adaptors (Pharmacia), digested with Not I and
 cloned into the Not I and Eco RI sites of the modified
 pT73 vector. Library went through one round of
 normalization, and was constructed by Bento Soares and
 M. Patricia Bonaldo."

BASE COUNT
 ORIGIN

8 a 12 c 12 g 8 t

```

DNA sequence.
ACCESSION      A0074058
VERSION        A0074058.1   GI:3403308
KEYWORDS       GSS.
SOURCE         fruit fly.
ORGANISM       Drosophila melanogaster
               Eukaryota; Metazoa; Arthropoda; Tracheata; Hexapoda; Insecta;
               Pterygota; Neoptera; Endopterygota; Diptera; Brachycera;
               Muscomorpha; Epiphydroidea; Drosophilidae; Drosophila.
REFERENCE      1 (bases 1 to 51)
AUTHORS        Liao,G.-C., Rehm,E.J. and Rubin,G.M.
TITLE          Insertion site preferences of the P transposable element in
               Drosophila melanogaster
JOURNAL        Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3347-3351 (2000)
MEDLINE        20202638
COMMENT        Contact: Gerald Rubin
               Berkeley Drosophila Genome Project
               University of California, Berkeley
               USA Building, Berkeley, CA 94720-3200, USA
               Fax: 5106433947
               Email: gerry@fruitfly.berkeley.edu
               Sequence recovery method was inverse PCR.

Sequence orientation is forward strand relative to 5' end of P
element

The P element insertion position is base 44 in the 51 bases. This
insertion position refers to the first base of the 8 base target
recognition sequence.
Class: transposon-tagged.
Location/Qualifiers
1. 51
   /organism="Drosophila melanogaster"
   /db_xref="taxon:7227"
   /clone.lib="Drosophila melanogaster EP line"
   /note="Inverse PCR was performed on Drosophila
   melanogaster strains each of which contains a single EP
   transposable element insertion. (The generation of these
   insertion strains is described in North P, Szabo K, Bailey
   V, Laverly T, Rehm J, Rubin GM, Weigmann K, Milan M, Benes
   V, Ansoerge W, Cohen SM. Development 6:1049-1057.) The
   resultant fragment for each strain was directly sequenced
   to determine the genomic sequence at the site of
   insertion. Details of the protocols used can be found at
   http://fruitfly.berkeley.edu/p_disrupt/inverse_pcr.html."
BASE COUNT    10 a                18 c                7 g                16 t
ORIGIN
Query Match           56.4%; Score 12.4; DB 13; Length 51;
Best Local Similarity 72.7%; Pred. No. 5.3e+04;
Matches 16; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
QY      1 caaccgcctcttcgacaatgga 22
        ||| | | | | | | | | | |
Db       2 CGCCGGCTCTCTTTACAACGCA 23

RESULT        6
AA662933/c
LOCUS
DEFINITION    mRNA sequence.
ACCESSION     AA662933
VERSION       AA662933.1   GI:2616924
KEYWORDS      EST.
SOURCE        Homo sapiens
              human.
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
DIFFERENCE    1 (bases 1 to 52)

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/clone_lib="NCI_CGAP_Brn25"
/lab_host="DH10B"
/notes="Organ: Brain; Vector: pT773D-Pac (Pharmacia) with a
modified polylinker; Site_1: Not I; Site_2: Eco RI; 1st
strand cDNA was primed with a Not I - oligo(dT) primer (5'
TCCTACCAATCTCAGTCGAGCGCGCCGACGCTTTTCTTTTCTTTTCTTTT
T 3'); double-stranded cDNA was ligated to Eco RI
adaptors (Pharmacia), digested with Not I and cloned into
the Not I and Eco RI sites of the modified pT73 vector.
Library is normalized, and was constructed by Bento
Soares and M.Fatima Bonaldo."

BASE COUNT
ORIGIN          9 a          21 c          27 t

Query Match          55.5%; Score 12.2; DB 10; Length 58;
Best Local Similarity 82.4%; Pred. No. 6.8e+04;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 3 cccgcctctcgacacat 19
    ||| ||||| ||| |||
Db 34 CCCCTCTCTCTACTACT 50

RESULT 9
LOCUS A1667553 37 bp mRNA EST 07-JUN-2001
DEFINITION fc41905.x1 zebrafish washu mpimg EST Danio rerio cDNA clone
IMAGE:3723992 3' similar to SW:PAHL MOUSE P29341
POLYADENYLATE-BINDING PROTEIN 1 ; mRNA sequence.
ACCESSION A1667553
VERSION A1667553.1 GI:4805909
KEYWORDS . EST.
SOURCE zebrafish.
ORGANISM Danio rerio
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Euteleostei; Ostariophysi;
Cypriniformes; Cyprinidae; Rasbora; Danio.
REFERENCE 1 (bases 1 to 37)
AUTHORS Clark,M., Johnson,S.L., Lehrach,H., Lee,R., Li,F., Maria,M., Eddy
,S., Hillier,L., Kucaba,T., Martin,J., Beck,C., Mylie,T., Underwood
,K., Steptoe,M., Theising,B., Allen,M., Bowers,Y., Person,B.,
Swaller,T., Gibbons,M., Pape,D., Harvey,N., Schuk,R., Ritter,E.,
Kohn,S., Shin,T., Jackson,J., Cardenas,M., Mccann,R., Waterston,R.
and Wilson,R.
Washu Zebrafish EST Project 1998
Unpublished (1998)
Contact: Stephen L. Johnson
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA
Tel: 314 286 1800
Fax: 314 286 1810
Email: zbratfish@watson.wustl.edu
CDNA Library Preparation: Matthew Clark, CDNA Library Arrayed by:
Matthew Clark, DNA Sequencing by: Washington University Genome
Sequencing Center Clone distribution: Genome Systems, St. Louis,
Missouri (web address: www.genomesystems.com) (email contact:
info@genomesystems.com) and Research Genetics, Huntsville, Alabama
(web address: www.resgen.com) (email contact: info@resgen.com) and
ReSourcezentrumPrimaDatenbank, Berlin, Germany (web address:
www.rzp.de)
Possible reversed clone: similarity on wrong strand
Seq primer: T7 ET from Amersham
High quality sequence stop: 1.
Location/Qualifiers
1. 37
/organism="Danio rerio"
/db_xref="taxon:7955"
/clone_lib="IMAGE:3723992"
/clone_lib="Zebrafish Washu MPIMG EST"
/sex="mixed"
/tissue_type="26 somite embryos, adult livers, shield

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```

stage embryos"
/lab_host="XLI-Blue MRF"
/notes="Vector: pSPORT1; Site_1: NotI; Site_2: SalI; 1st
strand cDNA was primed with a Not I - oligo(dT)15 primer
(5' pGACTACTTCATGATTCGACGCGCCGCTCTTTTCTTTTCTTTTCTTTT
3'); double-stranded cDNA was ligated to Sal I adaptors (BRL),
digested with Not I and cloned into the Not I and Sal I
sites of the pSPORT1 vector (BRL). Library was constructed
by Matthew Clark (Lehrach lab, ICRF, London and Max Planck
Institut fuer Molekulare Genetik, Berlin). cDNAs for EST
hybridization fingerprinting of arrayed clones from
zebrafish late somitogenesis (26 ss), adult liver or
embryonic shield stage (5.6 h) libraries. Fingerprint
data were used to computationally cluster cDNAs, and a
single cDNA from each cluster was chosen for sequencing.
In some cases multiple members of the same cluster were
sequenced to assess clustering parameters or single clones
were sequenced additional times to assess quality
control."

BASE COUNT
ORIGIN          8 a          9 c          13 g          7 t

Query Match          54.5%; Score 12; DB 10; Length 37;
Best Local Similarity 75.0%; Pred. No. 7.6e+04;
Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 3 cccgcctctcgacacatga 22
    ||| ||||| || ||| |
Db 37 CCCGCTCTCCAGACATCTCA 18

RESULT 10
LOCUS AUI02542 50 bp mRNA EST 05-APR-2001
DEFINITION AUI02542 Sugano Homo sapiens cDNA library Homo sapiens cDNA clone
HRC08226, mRNA sequence.
ACCESSION AUI02542
VERSION AUI02542.1 GI:13552063
KEYWORDS EST.
SOURCE human.
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE 1 (bases 1 to 50)
AUTHORS Suzuki,Y., Tsunoda,T., Taira,H., Mizushima-Sugano,J., Sese,J., Hata
,H., Ota,T., Isogai,T., Tanaka,T., Nakamura,Y., Morishita,S., Okubo
,K., Suyama,A. and Sugano,S.
Fine Structural analysis of transcription start sites of human
mRNAs using full-length enriched and 5'-end enriched cDNA libraries
Unpublished (2001)
Contact: Yutaka Suzuki
Department of Virology
Institute of Medical Science, University of Tokyo
4-6-1, Shirokanedai, Minatoku, Tokyo 108-8639, Japan
Email: yusuzuki@ims.u-tokyo.ac.jp
Suzuki,Y., Yoshitomo-Nakagawa,K., Maruyama,K., Suyama,A. and Sugano
,S. Construction and characterization of a full length-enriched and
a 5'-end-enriched cDNA library. Gene 200 (1-2), 149-156 (1997).

FEATURES
SOURCE
1. 50
/organism="Homo sapiens"
/db_xref="taxon:9606"
/clone="HRC08226"
/clone_lib="Sugano Homo sapiens cDNA library"

BASE COUNT
ORIGIN          7 a          12 c          20 g          11 t

Query Match          54.5%; Score 12; DB 10; Length 50;
Best Local Similarity 75.0%; Pred. No. 8.2e+04;
Matches 15; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

```


FEATURES
SOURCE

Location/Qualifiers

1. 30

/organism="Mus musculus"

/strain="C57BL/6J"

/db_xref="taxon:10090"

/clone="UUCG1M0158F13"

/clone_lib="Mouse 10kb plasmid UUCG1M library"

/sex="Male"

/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"

/note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource

(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adapted DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (9114732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adapted mouse DNA was annealed to adapted vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT
ORIGIN

3 a 8 c 9 g 10 t

Query Match 53.6%; Score 11.8; DB 13; Length 30;
Best Local Similarity 86.7%; Pred. No. 9e+04; 2; Indels 0; Gaps 0;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Oy 1 caccgcctctcga 15
||||| ||||| ||
Db 7 CACCGCGTCTCTGA 21

RESULT 14

LOCUS

DEFINITION

A2658111 37 bp DNA GSS 14-DEC-2000

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE
AUTHORS

TITLE

JOURNAL
COMMENT

Mouse whole genome scaffolding with paired end reads from 10kb plasmid inserts
Unpublished (2000)
Contact: Robert B. Weiss
University of Utah
Rm. 308, Biomedical Polymers Research Bldg., 20 S. 2030 E., SLG, UT 84112, USA
Tel: 801 585 5606
Fax: 801 585 7177
Email: ddunn@genetics.utah.edu
Insert Length: 10000 Std Error: 0.00
Plate: 0534 row: N column: 12
Seq primer: CACACGAGAACACGCTATGACC
Class: plasmid ends

FEATURES
SOURCE
High quality sequence stop: 37.
Location/Qualifiers

1. 37

/organism="Mus musculus"

/strain="C57BL/6J"

/db_xref="taxon:10090"

/clone="UUCG1M0534N12"

/clone_lib="Mouse 10kb plasmid UUCG1M library"

/sex="Male"

/lab_host="E. Coli strain XL10-Gold, T1-resistant, F-"

/note="Vector: PWD42nv; Purified genomic DNA from M. musculus C57BL/6J (male) was obtained from the Jackson Laboratory Mouse DNA Resource
(http://www.jax.org/resources/documents/dnares/). The DNA was hydrodynamically sheared by repeated passage through a 0.005 inch orifice at constant velocity. The sheared DNA was blunt end-repaired with T4 DNA polymerase and T4 polynucleotide kinase. Adaptor oligonucleotides were ligated to the blunt ends in high molar excess. The adapted DNA was purified and size-selected for a 9.5 to 10.5 kb range using preparative agarose gel electrophoresis. Vector DNA was prepared from a derivative of pMD42 (9114732114|gb|AF129072.1), a copy-number inducible derivative of plasmid R1. The vector was ligated with adaptors complementary to the insert adaptors and purified. The sheared, adapted mouse DNA was annealed to adapted vector DNA, and transformed into chemically-competent E. coli XL10-Gold (Stratagene) cells and selected for ampicillin resistance."

BASE COUNT
ORIGIN

13 a 1 c 19 g 4 t

Query Match 53.6%; Score 11.8; DB 13; Length 37;
Best Local Similarity 86.7%; Pred. No. 9.4e+04;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Oy 3 cccgcctctcga 17
||||| ||||| |||
Db 31 CCCCTCTCTCCACA 17

RESULT 15

LOCUS

DEFINITION

ACCESSION

VERSION

KEYWORDS

SOURCE

ORGANISM

REFERENCE
AUTHORS

TITLE

JOURNAL
COMMENT

Glycine max
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicotyledons: core eudicots; Rosidae; eurosids I; Fabales; Fabaceae; Papilionoideae; Phaseoleae; Glycine.
1 (bases 1 to 43)
Shoemaker, R., Keim, P., Vodkin, L., Erpelting, J., Corvett, V., Khanna, A., Bolla, B., Marra, M., Hillier, L., Kucuba, T., Martin, J., Beck, C., Wille, T., Underwood, K., Steptoe, M., Theising, B., Allen, M., Bowers, Y., Person, B., Swaller, T., Gibbons, M., Page, D., Harvey, N., Schurk, R., Rutter, E., Kohn, S., Shin, T., Jackson, Y., Cardenas, M., McCann, R., Waterston, R. and Wilson, R.
Public Soybean EST Project
Unpublished (1999)
Contact: Shoemaker R/Public Soybean EST Project
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This clone is available through: Genome Systems, Inc. 4633 World Parkway Circle St. Louis, Missouri 63134 For further information call: (800) 430-0030 or (314) 427-3222 FAX: (888) 919-3324 or (314) 427-3324 or contact: clones@genomesystems.com or info@genomesystems.com web site: www.genomesystems.com
Trace considered overall poor quality
Possible reversed clone: similarity on wrong strand
High quality sequence stop: 1.

FEATURES

source

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1.43
Location/Qualifiers
/organism="Glycine max"
/db_xref="taxon:3847"
/clone="GENOME SYSTEMS CLONE ID: Gm-c1010-889"
/clone_1lb="Gm-c1010"
/tissue_type="young cotyledons of greenhouse grown plants"
/dev_stage="2cm long 12 week old"
/lab_host="X110-Gold"
/note="vector: Bluescript II SK+; Site_1: EcoRI; Site_2: XhoI; This cDNA library was constructed from mRNA isolated from immature cotyledons (100-200mgs) of old greenhouse grown plants. The cDNA library was prepared using the StrataGene Bluescript II SK(+) library construction kit. Complementary DNA was synthesized from mRNA using a primer consisting of a poly (dT) sequence with a XhoI restriction site. EcoRI adapters were ligated to the blunt-ended cDNA fragments followed by XhoI digestion. The cDNA fragments were directionally cloned into the EcoRI-XhoI restriction site of the Bluescript vector. The ligated cDNA fragments were transformed into X110-Gold host cells. This library was constructed by Dr. Ilya Vodkin and Dr. Anu Khanna."
BASE COUNT      11 a      10 c      7 g      15 t
ORIGIN

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Query Match      53.6%; Score 11.8; DB 10; Length 43;
Best Local Similarity 86.7%; Pred.No.9.8e+04;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 7 cctctcgacaatg 21
  | | | | | | | | |
Db 7 CCCTCTCGAAATGG 21

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Search completed: March 9, 2002, 00:09:23
Job time: 11039 sec